1	A.	TITLE OF THE INVENTION SOUPS COMPRISING EMULSIFIED LIQUID SHORTENING COMPOSITIONS
2		SOUPS COMPRISING EMULSIFIED LIQUID SATER AND LIPID.
3		COMPRISING DIETARY FIBER GEL, WATER AND LIPID.
4	В.	CROSS-REFERENCE TO RELATED APPLICATIONS
5		Not Applicable Not Applicable RESEARCH/DEVELOPMENT
6	C.	Not Applicable STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH/DEVELOPMENT
7		The present invention does not involve any form of federally sponsored research or
8 development.		
9	D.	BACKGROUND OF THE INVENTION The present invention relates to soups comprising emulsified liquid shortening compositions
10)	The present invention relates to soups con-
1	1 co	The present invention relates to surprising dietary fiber gel, water and lipid. Recent media attention to the global problem of omprising dietary fiber gel, water and lipid. Recent media attention to the global problem of omprising dietary fiber gel, water and lipid. Recent media attention to the global problem of omprising dietary fiber gel, water and lipid.
1	2 ot	persity demonstrates a need for greater availability of foods with low caloric and fat content. This is
1	3 es	One have high fat and caloric content, such as a first
		Same typically comprise some fat. Other ingredients can vary according
	15 0	Our cours are high in both fat and calonic content.
		have begun to offer reduced fat soup-
	16	desirable taste and texture of soups comprising and
	17	however, often fails to retain the desirable taste and caloric content of soups while still producing a The absence of a means to reduce the fat and caloric content of soups while still producing a
	18	The absence of a means to reduce the desirably flavored and textured soup presents an unmet need in today's food industry.
	19	desirably flavored and textured soup presents an object of the state o
	20	E. BRIEF SUMMARY OF THE INVENTION
	21	E. BRIEF SUMMARY OF THE ITY DAY. It is an object of the present invention to provide a unique composition of matter embodied. It is an object of the present invention to provide a unique composition of matter embodied in
	22	It is an object of the present invention of th
	23	the consuming public with a healtmen, higher hose
	23	inherently tattening. It is another the
	25	invention to provide soups that have been fortified with insoluble fiber and other functional foods.

Dietary fiber gels for calorie reduced foods hold the key to meeting this need. Dietary fiber gels for calorie reduced foods are fully described in U.S. Patent number 5,766,662 (the '662 patent). These dietary fiber gels comprise insoluble dietary fibers consisting of morphologically disintegrated cellular structures, and are characterized by their ability to retain large amounts of water.

Additionally, these dietary fiber gels are characterized by their high viscosity at low solid levels.

Other insoluble fibers derived from cereals, grains and legumes consist of morphologically in tact cellular structures, and thus impart a gritty texture to the foods in which they are contained. The dietary fiber gels disclosed in the '662 patent, however, consist of morphologically disintegrated cellular structures and thus impart a smoother texture than other insoluble fiber formulations.

More specifically, the present invention utilizes emulsified mixtures of the dietary fiber gels disclosed in the '662 patent, the emulsified mixtures further comprising, at a minimum, water and lipid. These emulsified mixtures are fully described in and are the subject of United States patent application number 10/669731 filed 09/24/2003. These emulsified mixtures, or "emulsified liquid shortening compositions comprising dietary fiber gel, water and lipid", can further comprise functional foods such as high omega three and omega six oils and pure omega three and omega six fatty acids, medium chain triglyceride, beta carotene, calcium estearate, vitamin E, bioflavonoids, fagopyritrol, polyphenolic antioxidants of vegetable origin, lycopene, luteine and soluble fiber, for example Beta-Glucan derived from yeast, and other soluble fibers derived from grain, flax seed, and other vegetable and fruit fiber sources, and any combination thereof. Hence, in addition to reducing fat and caloric content of soups, further health benefits can be achieved by replacing a portion of fat with emulsified liquid shortening compositions comprising dietary fiber gel, water and lipid.

According to the present invention, fat and caloric content can be reduced by the replacement of the fat normally found in soups with emulsified liquid shortening compositions comprising dietary fiber gel, water and lipid. This replacement of fat does not adversely affect either the taste or texture of the soups. The result is that fat and caloric content of soups can be manipulated with

minimal effect on taste and texture, and as stated above, additional health benefits can be achieved through consumption of soups comprising emulsified liquid shortening compositions comprising dietary fiber gel, water and lipid when functional foods are included in the formulations.

Further objects, advantages and features of the present invention will present themselves in the following detailed description.

F. DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

This invention is directed to soups comprising emulsified liquid shortening compositions comprising dietary fiber gel, water and lipid. According to the present invention, fat and caloric content can be reduced by the replacement of the fat normally found in soups with emulsified liquid shortening compositions comprising dietary fiber gel, water and lipid (hereinafter "emulsified liquid shortening"). This replacement of fat does not adversely affect either the taste or texture of the soups. The result is that fat and caloric content of soups can be manipulated with minimal effect on taste and texture.

Alternatively, the soups can be provided in the form of soup mixes and condensed soup concentrates with the intention that a consumer can mix them at a convenient, post-purchase time, and soup mixes and condensed soup concentrates are considered to be within the scope of this invention. As such, for purposes of this document, the term "soups" is defined to include soup mixes and condensed soup concentrates.

According to the present invention, soups can be formulated such that the soups comprise 0.25 percent to 5.00 percent dietary fiber gel solids by replacing an appropriate amount, that is, prorated to deliver this range of dietary fiber gel solids, of fat, including oil and liquid shortening, with an essentially identical amount of emulsified liquid shortening. The result is that fat and caloric content of soups can be manipulated with minimal effect on taste and texture, and as stated above, additional health benefits can be achieved through consumption of soups comprising emulsified

- 75 liquid shortening compositions comprising dietary fiber gel, water and lipid when functional foods
- are included in the formulations.